

8(6), 14(6)

SOV/112-59-4-6801

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 57 (USSR)

AUTHOR: Khodnev, V. V.

TITLE: Automatic-Control and Protection Panels for Hydroelectric Stations

PERIODICAL: V sb.: Novoye v-proyektir. elektr. chasti gidroelektrost. M.-L.,
Gosenergoizdat, 1957, pp 118-120

ABSTRACT: Standardized panels for automatic control and protection of high-capacity hydroelectric generators were developed by the Central Design Bureau of "Elektroprivod" in 1955. The generators are assumed to be connected either to the busses or to their individual transformers, and the hydroelectric station is supposed to have one all-station control room. The equipment comprises 3-4 panels, 800 x 600 x 2,200-mm each, enclosed in cabinets. Essential technical data is tabulated. A new series of equipment for power units, transformers, transmission lines, and general-station outfits has been developed for hydroelectric stations that have no central control room.

Card 1/2

SOV/112-59-4-6801

Automatic-Control and Protection Panels for Hydroelectric Stations

The series comprises 8 standardized makes of equipment. The equipment is supplied from a 110-v DC source; the closing mechanisms of the circuit-breakers are supplied by a special rectifier. Design and schemes of the equipment in the cabinets are briefly described.

S.S.L.

Card 2/2

SERGOVANTSEV, V.T., kand.tekhn.nauk; YURASOV, V.V., kand.tekhn.nauk;
ALUKER, Sh.M., kand.tekhn.nauk; ANDRIANOV, V.N., doktor tekhn.
nauk; ASTAF'YEV, N.N., kand.tekhn.nauk; BUDZKO, I.A., akademik;
BYSTRITSKIY, D.N., kand.tekhn.nauk; VEVALIS, B.S., kand.tekhn.
nauk; GIRSHBERG, V.V., inzh.; GORSHKOV, Ye.M., inzh.; GLI-
CHEVSKIY, E.Ya., inzh.; ZAKHARIN, A.G., doktor tekhn.nauk;
ZLATKOVSKIY, A.P., kand.tekhn.nauk; IOSIPIYAN, S.G., inzh.;
ITSKOVICH, A.M., dotsent; KAUFMAN, B.M., inzh.; KVITKO, M.N.,
inzh.; KORSHUNOV, A.P., inzh.; LEVIN, M.S., kand.tekhn.nauk;
LOBANOV, V.N., dotsent; LITVINENKO, A.F., inzh.; MERKELOV,
G.F., inzh.; PIRKHAVKA, P.Ya., kand.tekhn.nauk; PRONNIKOVA,
M.I., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; SATYU-
SHENKO, S.G., inzh.; KHODNEV, V.V., inzh.; SHCHATS, Ye.L.,
kand.tekhn.nauk; EBIN, L.Ye., doktor tekhn.nauk; ENTIN, I.A.,
kand.tekhn.nauk; SILIN, V.S., red.; SMELYANSKIY, V.A., red.;
BALLOD, A.I., tekhn.red.; SMIRNOVA, Ye.A., tekhn.red.

[Handbook pertaining to the production and distribution of
electricity in agriculture] Spravochnik po proizvodstvu i
raspredelenii elektricheskoi energii v sel'skom khoziaistve.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 900 p. (MIRA 13:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
V.I.Lenina (for Budzko).
(Rural electrification)

GIRSHBERG, V.V., inzh.; BRODSKIY, Yu.A., inzh.; KIRSHMAN, R.V., inzh.;
MALINOVSKAYA, Z.N., inzh.; TRIFONOVA, T.P., inzh.;
KHODNEV, V.V., inzh.

Large-block units of electric power supply equipment for
agriculture. Elektrotehnika, 34 No.11-1-7 N.63.
(MIRA 17:2)

VORONETSKIY, B.B., kand. tekhn. nauk; GIRSHBERG, V.V., inzh.;
KHODNEV, V.V., inzh.

Transistorized systems for automatic control and protection
of power engineering and industrial systems. Elektrotehnika
36 no.4:1-6 Ap '65. (MIRA 18:5)

BIRYUKOV, A.V., inzh.; PODARUYEV, A.I., inzh.; KHODNEV, V.V., inzh.;
BORISOV, V.A., inzh.; VOLYNTSEV, F.I., inzh.; KATS, Z.D., inzh.

Contactless transistorized protection system for 6-10 kv.
distribution units. Elektrotehnika 36 no.4:7-11 Ap '65.
(MIRA 18:5)

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|
| L 51315-65 EMP(k)/EMT(d)/EMF(h)/EMF(l)/EMF(v) Pt-4 | | |
| ACCESSION NR: AP5009788 | | UR/0291/65/000/004/0011/0014 681.142.67:621.316.925.001.3 |
| AUTHOR: Girshberg, V. V. (Engineer); Kutler, N. P. (Engineer); Khodne, V. V. (Engineer); Petrukhin, B. P. (Engineer); Domanitskiy, S. M. (Candidate of technical sciences); Prangishvili, I. V. (Candidate of technical sciences) | | 20 43 series |
| TITLE: Transistor logical and functional elements of the standardised ET intended for industrial automatic systems | | ET |
| SOURCE: Elektrotehnika, no. 4, 1965, 11-14 | | |
| TOPIC TAGS: logical element, functional element, industrial automation, automatic element | | |
| ABSTRACT: Data on 18 Soviet-made NOR, OR, AND and MEMORY elements is given. The elements are designed to operate at -40-50°C, humidity up to 100% at +10°C, supply-voltage variation of -15-10%. The intensity of failure of the principal 2 NOR ("ET-L01") element is 10^{-5} per hr which is much lower than the | | |
| Card 1/2 | | |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--|
| TOP SECRET | | | |
| TOP SECRET NR. AP500978B | | | |
| Operational reliability for relays. The life of the elements — 40000 hrs — is independent of the number of operations. The principal logical elements operate at a frequency up to 10 kc. Supply voltage, -12 or -25 v; bias voltage, +5 v; load voltage, 24 v dc. Signal levels, 0.2-0.8 v or 4 v dc. Orig. art. has 10 figures and 3 tables. | | | |
| ASSOCIATION: none | | | |
| CONFIRMED: 00 | ENCL: 00 | SUB CODE: 1E | |
| NOTIFY SOC: 000 | OTHER: 000 | | |
| 3-5 Card 2/2 | | | |

Khodneva, E. A.; Sivstunov, N. I.; Lazareva, K. N.; Fedorovskiy, S. M.;
Khromov, B. M. [Prof.]; Garvin, L. I. (Docent); Kazantseva, N. D.; Leningrad

"The Treatment of Burns According to Data of Leningrad Hospital."

report submitted for the 27th Congress of Surgeons of the USSR, Moscow, 23-28 May 1960.

24224
9,2580 (1157)

S/142/61/004/001/003/008
E140/E163

AUTHORS: Bonch-Osmolovskiy, A.G., and Khodnevich, A.D.
TITLE: Generator of magnetic field pulses with high pulse repetition rate

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1961, Vol.4, No.1, pp. 49-54

TEXT: Previous literature known to the authors describes magnetic field pulse generators for single impulses or repetition rates of 50 or 100 cps. For focusing pulsed electron streams, and other applications, it would be of advantage to have periodic fields with frequencies of the order of hundreds or thousands of cps. The authors describe a vacuum tube circuit for generating periodic bipolar current pulses of the order of several hundred A and duration $\sim 10 \mu\text{sec}$ and frequencies up to 1300 cps. The tubes used are hydrogen thyratrons, with the frequency controlled by an external generator. The magnetic field is generated by a coil tuned to resonance by a series capacitor. The fields obtained ranged from 10500 Oe at 50 cps to 3100 Oe at 1300 cps.

Card 1/2

ACC NR: AP7005607

SOURCE CODE: UR/0413/67/000/002/0047/0047

INVENTOR: Tager, A. S.; Khodnevich, A. D.

ORG: none

TITLE: Avalanche-transit oscillator. Class 21, No. 190429

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 47

TOPIC TAGS: uhf oscillator, sensor diode, ELECTRONIC COMPOUNDS

ABSTRACT: An Author Certificate has been issued for the avalanche-transit oscillator with mechanical tuning shown in Fig. 1. To increase output power and tuning range and also to reduce power drop in the tuning range, the movable resistive contact is removed from the resonator of the oscillator and ...

Card 1/2

UDC: 621.373.1:621.382.2

ACC NR: AP7005607

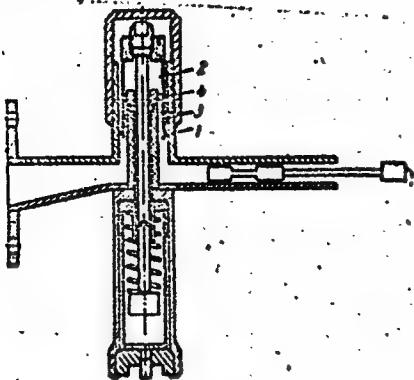


Fig. 1. Avalanche-transit oscillator

1 - Movable resistive contact;
2 - resonator; 3 - ring-shaped
slots; 4 - fixed contactless
plunger.

energy output occurs through ring-shaped slots in a fixed plunger. Orig.
art. has: 1 figure. [WP]

SUB CODE: 09/ SUBM DATE: 10Dec63/ ATD PRESS: 5116

Card 2/2

BONCH-OSMOLOVSKIY, A.G.; KHODNEVICH, A.D.

Generator of pulsed magnetic fields with a great pulse repetition frequency. Izv. vys. ucheb. zav.; radiotekh. 4 no.1:49-54 Ja-F '61. (MIRA 14:4)

1. Rekomendovana kafedroy spetsfiziki Leningradskogo elekrotekhnicheskogo instituta im. V.I.Ulyanova (Lenina).
(Magnetic fields) (Oscillators, Electric)
(Pulse techniques (Electronics))

KHODNYA, N.F.

Echinococcosis; data from the clinic of the surgical department
for 10 years. Zdravookhr. Kazakh. 23 no.1:30-33 '63
(MIRA 17:2)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - dotsent N.V.
Ionov) Karagandinskogo meditsinskogo instituta.

KHODNYA, N.F., kand.med. nauk; BILICH, G.L.

Echinococcosis in children. Khirurgiia 39 no.4:94-96 Ap'63
(MIRA 17:2)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - dotsent N.V. Ionov) Karagandinskogo meditsinskogo instituta i otdeleniya khirurgii detskogo vozrasta (zav. G.L.Bilich) 3-y Gorodskoy detskoy bol'nitsy (glavnnyy vrach P.F.Sergeyeva) Karagandy.

KHGDNYA, N.F.

Use of neuroplegic substances in various types of anesthesia.
Trudy Inst. klin. i eksp. khir. AN Kazakh. SSR 9:123-125 '63.
(MIRA 17:12)

1. KHODOBETS, B. I.
2. USSR (600)
4. Elastic Rods and Wires
7. Power method of consecutive approximations in the theory of vibrations and stability of resilient rod systems. Inzh.sbor., 13, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

DEREPA, K.P., dotsent; KHODOBETS, V.S.

Report on the activities of the Vinnitsa Provincial Scientific Society of Otorhinolaryngologists for 1962. Zhur. ush., nom. 1 gorl. bol. 23 no.5:92-93 S-0'63
(MIRA 1713)

1. Predsedatel' Vinnitskogo oblastnogo nauchnogo obshchestva otolaringologov (for Derepa). 2. Sekretar' Vinnitskogo oblastnogo nauchnogo obshchestva otolaringologov (for Khudobets).

L 37630-66 EWT(m)/EWP(t)/ETI/EWP(k) IJP(c) JD/HW

ACC NR: AP6011266

(N)

IJP(c)

JD/HW

SOURCE CODE: UR/0413/66/000/006/0119/0119

INVENTOR: Donskoy, O. V.; Khodor, V. Ya.

36

B

ORG: none

16

TITLE: Electrochemical method for pipe reconditioning. Class 48, No. 180053
[announced by the Scientific Research Pipe Institute (Nauchno-issledovatel'skiy
Trubnyy Institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 119

TOPIC TAGS: pipe, pipe reconditioning, SODIUM CHLORIDE, AUSTENITIC STEEL

ABSTRACT: This Author Certificate introduces an electrochemical method for reconditioning austenitic steel pipe with a solution of sodium chloride. For longer service life the initial pipe is surface treated in a flow-through electrolyte at -8 to +10C with current density of 10 amp/cm² and higher. [LD]

SUB CODE: 13/ SUBM DATE: 31Oct63

Cord 1/1 vmb

UDC: 621.357.8-462.004.67

ACC NR: AP7002615 (A, N) SOURCE CODE: UR/0413/66/000/023/0129/0130

INVENTOR: Golovko, V. Ya.; Spektor, L. A.; Agranat, A. R.; Mezhakov, V. V.; Khodorchenko, A. S.; Olifir, V. P.

ORG: None

TITLE: A radial plunger pump. Class 59, No. 189314 [announced by the Gorlovka Machine Building Plant im. S. M. Kirov (Gorlovskiy mashinostroitel'nyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 129-130

TOPIC TAGS: hydraulic pump, fluid friction

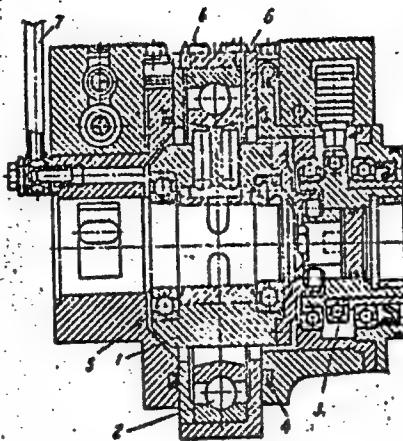
ABSTRACT: This Author's Certificate introduces a radial plunger pump with a rotating cylinder block. The pump is designed for operation as a high-efficiency submerged unit by eliminating oil friction in the rotating components. The cylinder block is enclosed in a chamber with two vent holes, one to permit escape of the oil from the chamber under the effect of centrifugal forces, and the other to prevent the formation of a vacuum in the chamber by communicating with the atmosphere.

Card 1/2

UDC: 621.653-728

0930 2733

ACC-NR: AP7002615



1--rotor; 2--bearing; 3--shaft; 4--seal; 5--chamber; 6--hole for escaping oil;
7--hole communicating with the atmosphere

SUB CODE: 13/ SUBM DATE: 16Dec64

Card 2/2

KHODORCHENKO, V. V.

KHODORCHENKO, V. V. -- "Synthesis and Investigation of Copper Borates."
Latvian State U, 1953 (Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Izvestiya Ak. Nauk Latviyskoy SSR, No. 9, Sept., 1955

SHUL'GIN, I.A.; KHODORENKO, L.A.

Effect of spectral composition and the intensity of radiant energy on the chlorophyll content as related to the length of the photoperiod. Dokl. AN SSSR 156 no. 3:712-714 '64. (MIRA 17:5)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva AN SSSR i. Belorousskiy gosudarstvennyy universitet im. V.I.Lenina. Predstavлено akademikom [redacted] Mursanovym.

GODNEV, T.N.; LESHINA, A.V.; KHODORENKO, L.A.

Variations in the size of chloroplasts and pigment accumulation
in them during prolonged shading and subsequent illumination.
Fiziol. rast. 7 no.6:638-644 '60. (MIRA 14:1)

1. V.I. Lenin Byelorussian State University, Minsk.
(Chlorophyll) (Plants, Effect of light on)

KLESHNIK, A.F. [Kliashnin, A.F.]; KHODORENKO, L.A. [Khodorenko, L.A.]

Plastid apparatus of sugar beet leaves in artificial light.
Vestsi AN BSSR. Ser. biol. nav. no.4857-39 1962.

(MIRA 17:6)

KHODORENKO, L.A.; SHUL'GIN, I.A.

Effect of different illumination conditions on the anatomical-comorphological structure of radish leaves. Nauch. dokl. vys. shkoly; biol. nauki no.3:149-153 '64 (MIRA 17:8)

1. Rekomendovana kafedroy darvinizma Moskovskogo gosudarstvennogo universiteta.

KAKHNOVICH, L.V.; KHODORENKO, L.A.

Methods of sampling and chlorophyll content computation.
Fiziol. rast. 11 no.5:933-936 S-0 '64.

1. Belorusskiy gosudarstvennyy universitet, Minsk.
(MIRA 17:10)

22(3)

SOV/174-58-5-31/37

AUTHOR: Khodorenko, V.Ye., Lieutenant Colonel

TITLE: Members of the Komsomol in the Fight to Perfect Battery
Firing (Komsomol'tsy v bor'be za otlichnoye vypolneniye
boyevykh strel'b)

PERIODICAL: Artilleriyskiy zhurnal, 1958, Nr 5, pp 44-45 (USSR)

ABSTRACT: The author describes the procedure at a komsomol
battery conference, where the Battery Commander Cap-
tain Kushch accused a number of komsomols of negli-
gence and mistakes. The results, as the author states,
soon proved to have been beneficial and a number of kom-
somols distinguished themselves as "perfectionists"
(otlichniki). The team work in training and in the field
has improved considerably. At the subsequent training
display, the Commander of a higher echelon (unnamed)
complimented the unit and issued individual awards:
short leaves, gifts, etc.

Card 1/1

PERTSEV, L.P., inzh.; KHODORETS, A.N., inzh.; VERUGA, V.F., inzh.

Using a hydrodynamic clutch in the drives of machinery for the
chemical industry. Khim.mashinostr. no.1:33-34 Ja-F '64.

(MIRA 17:4)

KARAGODOVA, Ye. A.; KHODORKOVSKIY, L.M.

Methodology of determining comparable indices of the work of
Departments. Sudostroenie no. 7861-63 J1 '65.

(MIRA 18:8)

KHODORKOVSKIY, S.M., inzhener-mayor.

Working out special flight operations on a trainer, Vest. Vozd. Fl.
39 no.11:40-43 '56. (MLRA 10:3)
(Flight training)

ACC NR: AR6035379

(N)

SOURCE CODE: UR/0398/66/000/009/A014/A014

AUTHOR: Kornilova, N. N.; Khodorkovskiy, Ya. S.

TITLE: Experimental investigation of the laminar boundary layer on a plate with transverse slot

SOURCE: Ref. zh. Vodnyy transport, Abs. 9A84

REF. SOURCE: Tr. Leningr. korablestroit. in-t, vyp. 48, 1965, 15-18

TOPIC TAGS: laminar boundary layer, laminar flow, fluid flow/T-4 wind tunnel

ABSTRACT: Results are presented of experimental research of the development of a laminar boundary layer on a plate with a transverse slot, through which liquid is drawn. The experiments were made in the T-4 wind tunnel of the Laboratory of Hydro-mechanics of the Leningrad Shipbuilding Institute. The results are compared with those obtained by the methods of G. V. Lachman and W. Wust. 8 illustrations, Bibliography, 2 titles. [Translation of abstract]

SUB CODE: 20

Card 1/1

UDC: 532.526

ACC NR: AR6034801 (v) SOURCE CODE: UR/0398/66/000/008/A016/A016

AUTHOR: Khodorkovskiy, Ya. S.

TITLE: Calculation of discrete suction of a fluid from a boundary layer

SOURCE: Ref. zh. Vodnyy transport, Abs. 8A95

REF SOURCE: Tr. Leningr. korablestroit. in-ta, vyp. 48, 1965, 47-63

TOPIC TAGS: boundary layer suction, laminar boundary layer, body of revolution

ABSTRACT: The basis parameters of a lamination system with suction are the distance between cracks, the total discharge and local discharge through each crack, the width of the crack and its structural shape. Calculation of these parameters for wing profiles and bodies of revolution is labor consuming. These parameters can be determined with sufficient accuracy for an equivalent flat plate. The distance between cracks for the flat plate, and the discharge of fluid through a running meter of a crack are calculated. The coefficient of full function resistance for an equivalent flat plate is determined on the part of the length of which fluid is sucked from the boundary layer. Orig. art. has: 7 figures.

Bibliography has 7 references. [Translation of abstract]

[GC]

Card 1/1 SUB CODE: 20/ UDC: 629.12:532

ACC NR: AR6034801 (N) SOURCE CODE: UR/0398/66/000/008/A016/A016

AUTHOR: Khodorkovskiy, Ya. S.

TITLE: Calculation of discrete suction of a fluid from a boundary layer

SOURCE: Ref. zh. Vodnyy transport, Abs. 8A95

REF SOURCE: Tr. Leningr. korablestroit. in-ta, vyp. 48, 1965, 47-53

TOPIC TAGS: boundary layer suction, laminar boundary layer, body of revolution

ABSTRACT: The basis parameters of a lamination system with suction are the distance between cracks, the total discharge and local discharge through each crack, the width of the crack and its structural shape. Calculation of these parameters for wing profiles and bodies of revolution is labor consuming. These parameters can be determined with sufficient accuracy for an equivalent flat plate. The distance between cracks for the flat plate, and the discharge of fluid through a running meter of a crack are calculated. The coefficient of full function resistance for an equivalent flat plate is determined on the part of the length of which fluid is sucked from the boundary layer. Orig. art. has: 7 figures. Bibliography has 7 references. [Translation of abstract] [GC]

Card 1/1 SUB CODE: 20/

UDC: 629.12:532

Khodorkina, A. A.

Khodorkina, A. A. Lecturer

Sverdlov Agricultural Institute, Department of Therapy
"Cesarean section in a cow in traumatic pericarditis."
SO: Veterinariia 24(5), 1947, p. 34

KHODORKINA, A.A., detsent; RASSANOVA, T.A., assistant; STARODUMOVA, Z.N.,
assistant.

Sapropelic mud therapy in noninfectious internal diseases in
farm animals and poultry. Veterinariia 32 no.12:49-52 D '55.

1. Sverdlevskiy sel'skokhozyaistvennyy institut.
(MARTHS, MEDICAL AND SURGICAL USES OF)(VETERINARY MEDICINE)

KHODORKINA, A.A.

USSR/Human and Animal Physiology Blood Circulation.
General Problems.

T-5

Abs Jour : Ref Zhur - Biol., No 10, 1958, 46016

Author : Khodorkina, A.A.

Inst : Moscow Veterinary Academy.

Title : Age Determined Changes in the Volume of Circulating
Blood and in Some Hematologic Indicators in Healthy
Cattle of the Middle Urals.

Orig Pub : Tr. Mosk. vet. akad., 1957, 19, No 1, 497-523.

Abstract : No abstract.

Card 1/1

- 42 -

KHODORKOVSKIY, A.L.

Automatic centering machines. Avt.prom. 28 no.12;35 D '62.
(MIRA 16:1)

1. Ural'skiy avtozavod.

(Machine tools)

KHODORKOVSKIY, I.Ya., inzh.; YUDKIN, V.F., inzh.; KOMLEV, L.L., inzh.;
ZERNIN, F.I., otv. za vypusk; SEMCHENKO, G.V., red.izd-va;
SUKMANOVA, K.G., tekhn.red.

[Recommendations for the improvement of harvesting machinery]
Rekomendatsii po usovremenstvovaniu tekhniki, ispol'zuemoi
na uborke uroshchais. Perm', Permskoe knizhnoe izd-vo, 1960.
82 p. (MIRA 14:1)

1. Perm (Province). Upravleniye sel'skogo khozyaystva.
(Harvesting machinery)

Khodorkovsky, M.L.

Determining the optimal depth of ore dressing with the help of mathematical statistic methods. Gor. zhur. no.6:60-64 Je '65.

(MIR 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut mekhanicheskoy obrabotki polosykh i tekopayemykh, Leningrad.

SAKHAROVA, T.M., kand.tekhn.nauk; KHODORKOVSKIY, N.A.

Norms on crosstalk attenuation in long-distance low-frequency telephone cables. Vest. sviazi 22 no.9:9 S '62. (MIRA 15:9)

1. Starshiy inzh. Kiyevskogo otdeleniya TSentral'nogo nauchno-issledovatel'skogo instituta svyazi Ministerstva svyazi SSSR (for Khodorkovskiy).

(Telephone lines)

Subject : USSR/Aeronautics - training AID P - 5222

Card 1/1 Pub. 135 - 8/26

Author : Khodorkovskiy, S. M., Eng.-Maj.

Title : Practice in a ground trainer for special cases of flight.

Periodical : Vest. vozd. flota, 11, 40-43, N 1956

Abstract : The author gives a description of a ground trainer which permits the pilot to practice in operation of engine under various conditions of flight. Two photos, 2 diagrams. The article is of informative value.

Institution : None

Submitted : No date

KHODOROV, A.

Physicist and lyric poets at a round table. Znan.-sila 38
no. 3:13-14 Mr '63. (MIRA 16:10)

KHODOROV, B.

USSR/Human and Animal Physiology - Neuro-Muscular
Physiology.

V-11

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4358

Author : T. Vinogradova, V. Gurfinkiel', Ya. Slavutskiy,
B. Khodorov

Inst : Central Institute of Prosthetology

Title : A Physiological Analysis of Walking with an Artificial
Limb after Removal of the Femur.

Orig Pub : In: 5-aya nauchnaya sessiya Tsentr. n.-i. in-ta protye-
zir. i protyezostroyeniya, M., 1956, 155-169

Abstract : The use of a prosthesis after the shelling out of the
femur is possible thanks to a series of compensatory
mechanisms: unbending in the pelvo-femoral joint of
the healthy leg simultaneously with the bending in the
lumbar region of the vertebral column; increased

Card 1/2

CA

HF

Electrotonus and accommodation. B. I. Khodurov.
Uspolki Sovremennoi Biol. (Advances in Modern Biol.) 39,
339-80 (1980).—Electrotonic changes in excitability, nerve
polarization, cathodic depression, and the time const. of
accommodation are reviewed. 46 references. J. P. S.

KHODOROV, B. I.

"Investigation of the Mechanism and Nature of Nerve Accommodation." Thesis for degree of Cand. Medical Sci. Sub 19 Oct 50, Acad Med Sci USSR

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Doc 1950.

CA KHODOROV, B.I.

2

B. P. Verige (1866-1928), an outstanding Russian physiologist. B. I. Khodorov, *Zhur. Osnikov Biol. (J. Gen. Biol.)* 12, 45-99 (1957).—Research by V. in neurophysiology, metabolism, O₂ in respiration, and immunology is reviewed. Julius F. Smith

KHODOROV, B. I.

USSR/Medicine - Blood Substitutes

Nov/Dec 53

"Utilization by the Organism of a Protein Preparation, Nonanaphylactic Serum 24 (I), on its Intravenous Administration," N.A. Fedorov, A. Ye. Gurvich, V. M. Rodionov, B. I. Khodorov, Lab of Norm and Pathol Physiol, Inst Biol and Med Chem, Acad Med Sci USSR, Moscow

Vop Pit, Vol 12, No 6, pp 16-21

I is a heterogenous serum which has been treated chemically in order to remove its anaphylactogenic properties. This serum is to be used for parenteral nutrition. It can be used as a protein blood substitute. Testing on dogs showed that I is harmless and furnishes good protein nutrition. Rapid administration of excessive doses leads to disturbances in the functioning of the liver and kidneys, however.

KHODOROV, B.I. (Moskva)

Effect of conditioned reflex on the size of unconditioned protective motor reflexes in dogs. Zhur.vys.nerv.dielat. 4 no.6:852-861
N-D '54. (MLRA 8:7)

(REFLEX, CONDITIONED,
eff. on unconditioned defense reflex in dogs)

(REFLEXES,
defense unconditioned reflex, eff. of conditioned reflex in dogs)

USSR/Medicine - Neurophysiology

KHODOROV, B. I.
Card 1/1 /Pub. 154-8/18

FD-2377

Author : Khodorov, B. I. (Moscow)

Title : Effects of a conditioned stimulus when it is used in the background of an unconditioned reflex.

Periodical : Zhur. vys. nerv. deyat., 5, 61-69, Jan/Feb 1955

Abstract : A conditioned stimulus, connected with an already initiated unconditioned motor-protective reflex, integrates with the unconditioned reflex producing a motor effect. The magnitude of this motor reaction depends both on the intensity of the conditioned stimulus and the magnitude of the unconditioned reflexes. The motor conditioned effect usually generates in the background of an unconditioned reflex with considerably greater speed and shorter latent period than a conditioned reflex caused by action of isolated conditioned stimuli. In some cases application of conditioned stimuli in the background of an unconditioned reflex may result in partial inhibition of this unconditioned reflex. Six diagrams. Fourteen Soviet references

Institution: --

Submitted : August 2, 1953

USSR/Medicine - Higher Nervous Activity

1D-2792

KHODOROV, B.I.

Analysis of the spatial localisation of internal cortical inhibition.
Dokl. AN SSSR 103 no.6:1119-1122 Ag '55. (MIRA 9:1)

1. Predstavlene akademikom L.A.Orbeli.
(CENTRAL COMPLEX)

LILOVA, V.V. (Moskva); GURVICH, A.Ye. (Moskva); RODINOV, V.M. (Moskva);
FEDOROV, N.A. (Moskva); KHODOROV, B.I. (Moskva)

Hydrogen balance and regeneration of serum proteins in dogs exposed to
a prolonged low-protein diet with intravenous administration of
heterologous proteins. Arkh.pat.18 no.6:99-109 '56. (MLR 9:12)

In laboratori normal'noy i patologicheskoy fisiologii (zav. - prof.
N.A. Fedorov) Instituta biologicheskoy i meditsinskoy khimii AMN SSSR
(dir. - deyatvitel'nyy chlen AMN SSSR prof. V.N. Orekhovich)

(BLOOD PROTEINS.
eff. of intravenous admin. of heterologous blood proteins
without anaphylactogenic factors in low protein diet in
animals (Rus))

(PLASMA SUBSTITUTES, effects.
serum proteins without anaphylactogenic factors on blood
proteins & nitrogen balance in animals after prolonged low
protein diet (Rus))

KHODOROV, B.I., Doc Med Sci -- (diss) "Study of the
mechanisms of ~~inter~~action between conditioned and
unconditioned motor-defensive reflexes in ~~dog~~ ^{dog}."
Mos, 1958, 29 pp (Acad Med Sci USSR) 200 copies
(KL, 50-58, 127)

- 103 -

VISHNEVSKIY, A.A.; SHIK, L.L.; KHODOROV, B.I.

Cybernetics in surgery. Eksper. Khir. 4 no.1:6-11 Ja-F '58.
(MIRA 12:2)

(SURGERY
cybernetics in surg. (Rus))
(CYBERNETICS
same)

KHODOROV, B.I. (Moskva)

Studies on the process of formation of defense motor conditioned reflex
in dog; conditioned reflex and dominance [with summary in English].
Zhur.vys.nevr. deiat. 8 no.6:887-895 N-D '58 (MIRA 12:1)
(REFLEX, CONDITIONED,
form of defense motor reflexes in dogs, stages (Rus))

XHODOROV, B.I. (Moskva)

Some features of conditioned inhibition. Zhur.vys.nerv.dielat. 9
no.5:753-758 8-0 '59. (MIRA 13:3)
(REVISED CONDITIONED)

17 (1)

AUTHOR:

Khodorov, B. I.

SOV/20-127-6-46/51

TITLE:

Variation in the Force of an Unconditioned Reflex as the Basis for Formation of a Temporary Nervous Connection

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1308 - 1311 (USSR)

ABSTRACT:

The author describes new experimental results concerning the rules of formation of conditioned motor defence reflexes. On the basis of an analysis of these results, he arrives at the conclusion that the most important condition for the formation of a complete temporary connection in the cerebral hemispherical cortex is a combination of the effect of an indifferent agent with the variations in force of an unconditioned irritation. The formation of a conditioned reflex in the case of an indifferent irritation preceding an unconditioned reflex (Refs 4,8) is a special case of this general rule; a temporary connection can also be formed in a combination of an indifferent agent with the strengthening of an unconditioned irritation which is already acting (i.e. which started before the indifferent one). "A coalition of irritations from 2 cortical points", which is necessary for the formation of a conditioned

Card 1/4

Variation in the Force of an Unconditioned Reflex as SOV/20-127-6-46/51
the Basis for Formation of a Temporary Nervous
Connection

reflex (Ref 10), does not only take place in ordinary combinations of irritations but also - contrary to usual concepts - also in the case of superpositions. On the other hand, a conditioned reflex is not formed if, in the latter case, the moment of formation of unconditioned excitation does not participate. Method. 6 dogs were used for the experiments; they were treated by the motor electric defence method. 2 types of combination of the indifferent (bell, sound or light) and of the unconditioned irritation: a) ordinary superpositions, and b) so-called "superpositions with intensification" (Refs 13 v,g,d), were used. The indifferent agent was applied, in ordinary superpositions, on the background of an unconditioned irritation (5 sec after the beginning of the latter). After this, the force of the unconditioned irritation was not changed. In contrast to the above, in the case of "superposition with intensification", every application of indifferent irritation on the background of the unconditioned one was accompanied by a sudden intensification (by 1.5 - 2 fold) of the acting electric skin irritation. The time interval between the

Card 2/4

Variation in the Force of an Unconditioned Reflex
as the Basis for Formation of a Temporary Nervous
Connection

SOV/20-127-6-46/51

application of the indifferent agent and the intensification of current was 1 second in general. The results are separately indicated for the cases A) and B). Figures 1-3 show the kymograms recorded for the dogs. A) An unconditioned background irritation neither prevents the reception of indifferent irritation by the cortex (of Refs 1,2,7) nor the continuation of the excitation originated in the analyzer to the center of the unconditioned reflex. B) The intensification of the unconditioned electric skin irritation immediately after an indifferent (or even inhibitory) irritation led to the formation of a conditioned motor defence reflex. A preceding unconditioned irritation neither prevented the formation nor the fixation of this temporary connection (Refs 2,4-7). From this, the author concludes that neither the force of the unconditioned irritation nor its duration, but the very fact of the temporary variation in this force, is the factor which plays a decisive part in the formation process of the conditioned reflex. There are 3 figures and 13 references, 12 of which are Soviet.

Card 3/4

Variation in the Force of an Unconditioned Reflex
as the Basis for Formation of a Temporary Nervous
Connection

SOV/20-127-6-46/51

ASSOCIATION: Institut khirurgii im. A. V. Vishnevskogo Akademii meditsinskikh
nauk SSSR (Institute of Surgery imeni A. V. Vishnevskiy of the
Academy of Medical Sciences, USSR).

PRESENTED: April 30, 1959, by I. S. Beritashvili, Academician

SUBMITTED: April 9, 1959

Card 4/4

KHODOROV, E.I., D.V. and S.V. --(eds) "Interaction mechanisms of conditioned and unconditioned defensive motor reflexes," Moscow, 1960, 28 pp
(Institute of Higher Nervous Activity, AS USSR) (KL, 36-60, 117)

KHODOROV, B.I.

Features of the summation of excitations at the moment of unconditioned reinforcement of the conditioned reflex. Biul. eksp. biol. i med. 49 no.1:3-7 Ja '60. (MIR, 13:7)

1. Iz fiziologicheskoy laboratorii (zam. - prof. L.L. Shik) Instituta khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR A.A. Vishnevskiy) AMN SSSR, Moskva. Predstavlena deystv. chlenom AMN SSSR V.M. Chernigovskim.

(CONDITIONED RESPONSE)

KHODOROV, B.I.

Extinction and differentiation of conditioned reflexes induced against a background of unconditioned stimulation; analysis of the mechanism of appearance and localization of internal inhibition during retrograde conditioning. Biul. eksp. biol. i med. 50 no.7:7-12 Jl '60.
(MIRA 14:5)

1. Iz fiziologicheskoy laboratori (zav. - prof. L.L.Shik)
Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deystvital'nyy
chlen AMN SSSR A.A.Vishnevskiy) AMN SSSR, Moskva. Predstavlena
deystvital'nym chlenom AMN SSSR P.S. Kupalovym.
(CONDITIONED RESPONSE)

VISHNEVSKIY, A.A.; KHODOROV, B.I.

Physiological mechanism of the direct action of novocaine on a
nerve. Eksper. khir. 4 no.6:3-10 N-D '59. (MIRA 14:6)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deystvital'nyy
chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR.
(NOVOCAINE) (NERVES)

KHODOROV, B.I.

"Physiological electrotomus of single nodes of Ranvier."

Report submitted, but not presented at the 22nd International
Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

KHODOROV, B.I. (Moskva)

Problem of the excitability and the correlation between the
resting potential and the critical potential of the membranes.
Usp.sovr.biol. 54 no.3:333-354 N-D '62. (MIRA 16:1)
(ELECTROPHYSIOLOGY) (MEMBRANES(BIOLOGY))

KHODOROV, B. I.

Dissertation defended in the Institute of Higher Nervous Activity and
Neurophysiology for the academic degree of Doctor of Medical Sciences:

"Reaction Mechanisms of Conditional and Nonconditional Defensive
Motor Reflexes."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

KHODOROV, B.I.; BELYAYEV, V.I.

Role of the degree of local response increase in the generation of the action potential of a single Ranvier's node in an isolated frog nerve fiber. Biofizika 8 no.4:461-466 '63.

(MIRA 17:10)

1. Institut khirurgii imeni Vishnevskogo AMN SSSR, Moskva.

KHODOROV, B.I.; BELYAYEV, V.I.

Modification of the level of critical depolarization and the
action potential of electrotonus in a single Ranvier's node
under the condition of the ionic effect of cadmium and nickel.
Biofizika 8 no.6:707-714 '63. (MIRA 17:7)

1. Institut khirurgii imeni A.V. Vishnevskogo AMN SSSR, Moskva.

KHODOROV, B.I.; BELYAYEV, V.I.

Generation of action potentials in single Ranvier's nodes of isolated frog nerve fibers under the influence of nickel and cadmium ions. Biul. eksp. biol. i med. 57 no.4:3-8 Ap '64.

(MIRA 18:3)

1. Fiziologicheskaya laboratoriya (zav. - prof. L.L. Shik) Instituta khirurgii imeni Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR, Moskva. Submitted April 13, 1963.

Khodol'ski, P. T., Polikayev, V. I.

Reproductive effect of orbital and caudal fins upon the suppressed
activity of Paramecium. Biologicheskaya laboratoriya Akad. N. D. Zel'dova. (MIRA 18:8)

1. Biologicheskaya laboratoriya Instituta Fizicheskoi AMN SSSR,
A. N. D. Zel'dova.

KHODOROV, B.I.; BELYAYEV, V.I.

Study of the mechanism of novocaine effect on the electrical
activity of a single Ranzier's node. Biofizika 10 no.4:
625-633 '65. (MIRA 18:8)

1. Institut khirurgii im. A.V. Vishnevskogo AMN SSSR, Moskva.

KHODOROV, E. I.

"Heat transfer in rotating furnaces."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

All-Union Aluminum & Magnesium Inst.

Khodorov, G.

DMITRIYEV, N.; KHODOROV, O.

After the transition to the seven-hour workday. Sots.trud no.9:98-105
S '57. (MIRA 10:9)

1. Nachal'nik otdela trida i zarabotnoy platy Vtorogo chasovogo
zavoda (for Dmitriyev). 2. Direktor Obukhovskoy fabriki imeni
Lenina (for Khodorov).
(Hours of labor)

KHODOROV, G.I.; GUS'KOVA, Ye.V.; ZAKHAROV, K.R.

Glorious centenary. Tekst. prom. 20 no. 11:83 N '60.

(MIRA 13:12)

(Obukhovo--Rugs and carpets)

БРЫЛЕЕВ, А.М., лауреат Сталинской премии, инженер; ГАНБУРГ, Я.Ю., инженер, редактор; ГОЛОВКИН, М.К., инженер, редактор; КАЗАКОВ, А.А., кандидат технических наук, редактор; КУТИН, И.М., доктор, кандидат технических наук, редактор; КЕМОНОВ, А.А., инженер, редактор; СЕМЕНОВ, Н.М., лауреат Сталинской премии, инженер, редактор; ЧЕРНЫШЕВ, В.В., инженер, редактор; ВАЛУЕВ, Г.А., инженер, редактор; МИФЕАС, Н.А., лауреат Сталинской премии, инженер, редактор; НОВИКОВ, В.А., доктор, редактор; ПИВОВАРОВ, А.Л., инженер, редактор; ПОГОДИН, А.М., инженер, редактор; ХОДОРОВ, Л.Р., инженер, редактор; ПИВОВАРОВ, А.Л., инженер, редактор; ПОГОДИН, А.М., инженер, редактор; ХОДОРОВ, Л.Р., инженер, редактор; ШУПЛОВ, В.И., кандидат технических наук, редактор; КЛЫКОВ, А.П., инженер, редактор; ЮДЗОН, Д.М., технический редактор; ВЕРИНА, Г.П., технический редактор.

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznychodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegia A.F. Baranov [i dr.] Glav.red. B.P. Budoi. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 975 p. (Card 2) (MLR 8:2)
(Railroads--Signaling) (Railroads--Communication systems).

BARANOV, A.F., redaktor; BIZYUKIN, D.D., redaktor; VAKHIN, M.I., otvetstvennyy redaktor toma, professor, doktor tekhnicheskikh nauk; VEDENISOV, B.N., redaktor; IVLIYEV, I.V., redaktor; MOSCHCHUK, I.D., redaktor; RUDOV, Ye.P., glavnyy redaktor; SOKOLIESKIY, Ya.I., redaktor; SOLOGUBOV, V.N., redaktor; SHIL'EVSKIY, V.A., redaktor; ALFEROV, A.A., inzhener; ANASHKIN, B.T., inzhener; APANAS'YEV, Ye.V., laureat Stalinskoy premii, inzhener; BELENKO, K.M., dotsent; BORISOV, D.P., dotsent, kandidat tekhnicheskikh nauk; ZHIL'TSOV, P.N., inzhener; ZBAR, N.R., inzhener; IL'YENKOV, V.I., dotsent, kandidat tekhnicheskikh nauk; KAZANOV, A.A., kandidat tekhnicheskikh nauk; KRAYZMER, L.P., kandidat tekhnicheskikh nauk; KOTLYARENKO, N.F., dotsent, kandidat tekhnicheskikh nauk; MAYSHEV, P.V., professor, kandidat tekhnicheskikh nauk; MARKOV, M.V., inzhener; NELEPETS, V.S., dotsent, kandidat tekhnicheskikh nauk; NOVIKOV, V.A., dotsent; ORLOV, N.A., inzhener; PETROV, I.I., kandidat tekhnicheskikh nauk; PIVKO, G.M., inzhener; PGODIN, A.M., inzhener; RAMLAU, P.N., dotsent, kandidat tekhnicheskikh nauk; ROGINSKIY, V.N., kandidat tekhnicheskikh nauk; RYAZANTSEV, B.S., laureat Stalinskoy premii, dotsent, kandidat tekhnicheskikh nauk; SNAESKIY, A.A., inzhener; YEL'DIN, A.B., inzhener; SHASTIN, V.A., laureat Stalinskoy premii, inzhener; SHUR, B.I., inzhener; GONCHUKOV, V.I., inzhener, retsenszent; NOVIKOV, V.A., dotsent, retsenszent; APANAS'YEV, Ye.V., laureat Stalinskoy premii, retsenszent;

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznyodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegia A.F.Baranov [i dr.] Glav.red. E.P.Rudov. Moskva, Gos. transp. zhelez-dor. izd-vo, 1952. 975 p. (Continued on next card)

KHODOROV, L.R., inzhener.

Apparatus for dividing channels of telephone main lines.

Avtom., telem. i sviaz' no. 4:18-20 Ap '57.

(Telephone lines)

(MERA 10:5)

KHODOROV, L.R.

Seminar on new communications equipment. /vtom.telem.i sviaz'/
no.2:41 Ag '57. (VIAU 10:2)

1.Glavnyy inzhener Tsentral'nog zvena vsego svyazi ministerstva
putey soobshcheniya.
(Railroads--Communication systems)

XHODOROV, L.R.; SAFRONOVA, A.V.

Semiautomatic method of interconnecting principal telephone communication channels. Avtom., telem. i sviaz' 4 no.10:15-16 0-60.
(MIRA 13:10)

1. Zamstittel' nachal'nika TSentral'noy stantsii svyazi Ministerstva
putey soobshcheniya (for Khodorov). 2. Starshiy inzhener TSentral'noy
stantsii svyazi Ministerstva putey soobshcheniya (for Safronova).
(Telephone, Automatic)

PIVKO, G.M.; ARKHIPOV, P.S. (deceased); MEDVEDNIKOV, M.N., inzh.,
retsenzent; USTIMENKO, P.I., inzh., retsenzent; KHODOROV,
L.R., inzh., retsenzent; NCVIKAS, M.N., inzh., red.;
KHITROV, P.A., tekhn. red.

[Manual on railroad wire communication equipment] Spravochnik
po apparature transportnoi provodnoi sviazi. Moskva, Trans-
zhel'dorizdat, 1963. 359 p. (MIRA 16:7)
(Railroads—Communication systems)

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|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KHODOROV, P. M. | |
| USER/ Chemistry - Physical chemistry | |
| Card 1/1 | Pub. 22 - 35/60 |
| Authors : | Tager, A. A., Krivokorytova, R. V., and Khodorov, P. M. |
| Title : | Heats of solution of polystyrene of different molecular weight and the packing density of stable chains |
| Periodical : | Dok. AN SSSR 100/4, 741-743, Feb 1, 1955 |
| Abstract : | The integral heats of solution were determined for various fractions in benzene and for a hydrogenated polystyrene monomer - ethyl benzene. The results indicate that polystyrene with a molecular weight of about 1000 dissolves in benzene and in ethyl benzene with a zero thermal effect. It was observed that the low-molecular polystyrene dissolves in a natural hydrogenated monomer - ethyl benzene - with a zero thermal effect which indicates that the packing density of the low-molecular polystyrene is close to the packing density of ethyl benzene molecules. An increase in molecular weight was observed to be followed by a considerable increase in the heat of solution. Four references: 3 USSR and 1 USA (1950-1954). Table; graph. |
| Institution : | The A. M. Gorkiy Ural State University |
| Presented by: | Academician V. A. Kargin, August 17, 1954 |

KHODOROV, L.R.

International conference of communication workers. Avtom. telec. i
sviaz' 3 no.8:14 Ag '59. (MIRA 13:2)

1. Glavnnyy inzhener Tsentral'noy stantsii svyazi Ministerstva putei
soobshcheniya.
(Communication and traffic--Congresses)

KHODOROV, S.A., kandidat tekhnicheskikh nauk.

Scientific session of the Kiev Polytechnical Institute devoted to
the 50th anniversary of its foundation. Elektrichestvo no.1:83
Ja '49. (MLRA 7:10)

(Kiev--Engineering--Study and teaching) (Engineering--
Study and teaching--Kiev)

BUDNITSKIY, A.B.; VENIKOV, V.A.; GIZILA, Ye.P.; GREBEN', I.I.;
IYERUSALIMOV, M.Ye.; KALNIBOLOTSKIY, M.L.; KONDRA, B.N.;
LOYEV, Ye.G.; NESTERENKO, A.D.; PAVLOV, V.M.; POSTNIKOV, I.M.;
POBEGAYLO, K.M.; RADCHENKO, L.A.; SVECHNIKOV, L.V.; SYROMYATNIKOV,
I.A.; FEDOSEYEV, A.M.; FEDCHENKO, I.K.; KHODOROV, S.Ye.;
CHIZHENKO, I.M.; TSUKERNIK, L.V.

Professor Vasilii Grigor'evich, 1904 -; on his 60th birthday.
Elektrichestvo no.4:93-94 Ap '64. (MIRA 17:4)

FRUDOROV, T. YA.

29671

Chastotnyye iskazhyeniya pri vosproievyedyenii

odnokratnykh protsyessov. Elektricheskoye

1949, No. 9, s. 30-32

SO: LETOPIS' NO. 40

KHODOROV, T.Ya.; MAGIN, S.M., inzh., retsenzent

[Digital control computers] Tsifrovye upravlyaiushchie
mashiny. Moskva, Mashinostroenie, 1964. 439 p.
(MIRA 17:6)

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| REF ID: A67465 BY7(d)/EWI(v)/T/EP(h)/EWI(t)/EWI(h) DIA/CIA-RR/GR | BOOK EXPLOITATION | 5/ 31 B71 |
| TRANSMISSION BY 4/10/2001 | | |
| <u>Chirkov, T. Ya.</u> | | |
| Digital control computers (Tsifrovye upravlyayushchiye mashiny), Moscow, Izd-vo "Mashinostroyeniye", 1964, 430 p. illus., biblio. 8,200 copies printed. | | |
| TOPIC INDEX: digital computer | | |
| PURPOSE AND COVERAGE: This book is devoted to the design of digital control computers. It examines the principles, circuits, and component design of control digital computers. The various components of the machine are described as well as the components for its connection with the information sources and the mechanics of the controlled object. The circuits of the control computers, their programming, and problems of accuracy, reliability, and the dynamics of computer operation are also examined. Basic attention is devoted to a consideration of the features of control computers compared to universal digital computers and components for connecting the control computers to the controlled objects. The book is intended for engineers and technicians concerned with the design and use of digital control computers or digital systems of automatic control. It will be useful to many workers in instrument construction and to students studying instrument construction, computer technology, and automation. | | |

14474-63

ACADEMIA NAR. ANTONIO GOMBERG

TABLE OF CONTENTS (abridged)

| | |
|----------------------------------------------------------------------------|-----|
| Forward | 1 |
| Ch. I. Transmission, conversion, retention, and memorizing of signals | 5 |
| Ch. II. Pulse amplifier elements | 14 |
| Ch. III. Functional elements | 61 |
| Ch. IV. Functional networks | 122 |
| Ch. V. Arithmetic computer components | 119 |
| Ch. VI. Integrating computer components | 137 |
| Ch. VII. Memory components | 159 |
| Ch. VIII. Data input components | 177 |
| Ch. IX. Data output components | 211 |
| Ch. X. Power components | 231 |
| Ch. XI. Control machines with special listed computer components | 253 |
| Ch. XII. Control machines with universal computer components | 272 |
| Ch. XIII. Programming control machines with a universal computer component | 286 |
| Ch. XIV. Accuracy of a digital control machine | 327 |
| Ch. XV. Operation dynamics of control machines | 340 |
| Ch. XVI. Reliability of control machines | 383 |
| Ch. XVII. Design of control machines | 400 |

| | | | |
|-------------------------------|-----------------------|-------------------|--|
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ACC NR: AP5027902

SOURCE CODE: UR/0103/65/026/011/2088/2071

AUTHOR: Khodorov, T. Ya. (Leningrad)

36

B

ORG: None

TITLE: The evaluation of piecewise-linear function approximations by digital computers

SOURCE: Avtomatika i telemekhanika, v. 26, no. 11, 1965, 2068-2071

TOPIC TAGS: digital computer, computer input unit, computer memory, computer storage, linear approximation, function analysis

ABSTRACT: In the case of digital computers operating in real time the computation process should be formulated with the aim of achieving the fastest possible operation. In problems solved by such computers the most time consuming are the evaluations of elementary analytic and tabulated functions, and any speeding up of such calculations is highly desirable. Digital control units also usually contain a long-range memory which may store tables of particular values of such functions. This allows a fast calculation by the method of linear interpolation. The present article discusses the criteria for the choice of steps during the establishment of the piecewise-linear approximations, determines the computational errors during the evaluation of the functions, and outlines a method for their accelerated interpolation during the computations on digital control machines. The approach is illustrated by a brief calculation. Orig. art. has: 12 formulas, 1 figure, and 1 table.

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Card 1/1 *Kh*

KHODOROV, Teodor Yakovlevich; NOVOSEL'TSEV, Ya. V., nauchnyy red.;
VLASOVA, Z. V., red.; SHISHKOVA, L. M., tekhn.red.

[Electromechanical inductive calculating systems] Elektro-
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182 p. (MIRA 13:6)

(Electronic calculating machines)

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16.8000 (1121,1031,1329)

AUTHOR: Khodorov, T.Ya. (Leningrad)

TITLE: The problem of functional design of digital controllers

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 1, 1962, 45-51

TEXT: The author considers three circuits of digital controllers which result in the required speed of operation with the minimum speed of operation of its component parts and at the same time make it possible to divide the control problem into a minimum number of simple computing operations. The control is assumed to have a general form of

$$\begin{aligned} F_1(\mu_1, \mu_2, \dots, \mu_m, \lambda_1, \lambda_2, \dots, \lambda_n, q_1, q_2, \dots, q_k) &= 0, \\ F_2(\mu_1, \mu_2, \dots, \mu_m, \lambda_1, \lambda_2, \dots, \lambda_n, q_1, q_2, \dots, q_k) &= 0, \\ \dots & \dots \\ F_k(\mu_1, \mu_2, \dots, \mu_m, \lambda_1, \lambda_2, \dots, \lambda_n, q_1, q_2, \dots, q_k) &= 0. \end{aligned} \tag{1}$$

In it $\mu_1, \mu_2, \dots, \mu_m$ are given quantities determining the operation of the object to be controlled, $\lambda_1, \lambda_2, \dots, \lambda_n$ - quantities

Card 1/4

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D201/D304

The problem of functional design ...

which characterize the regulating process or information transmitted from the controlled object to the controller, q_1, q_2, \dots, q_k the wanted quantities evaluated by the controller and transmitted as control inputs to the controlled object. To find q_1, q_2, \dots, q_k the system (1) must be transformed into a form suitable for the necessary computations. This new form of system equations depends on the structural diagram of the controller. Three circuits are analyzed. 1) Fig. 1. The controller is in the form of a digital differential analyzer (DDA). The circuit of the DDA consists of a computer, an arrangement for producing outputs $\mu_1, \mu_2, \dots, \mu_m$, transducers, T_1, T_2, \dots, T_n for introducing $\lambda_1, \lambda_2, \dots, \lambda_n$ and amplifiers A_1, A_2, \dots, A_k with motor stages $M_1, M_2, \dots, M_k \dots M_k$ for q_1, q_2, \dots, q_k . 2) The controller is in the form of a general purpose digital computer (DC) in which all operations are reduced to the simplest arithmetic, so that all mathematical dependences are presented in the form of a system of algebraic equations. With this method of

Card 2/4

33766
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D201/D304

The problem of functional design ...

solution the mechanical quantities $\lambda_1(M)$, $\lambda_2(M)$, ..., $\lambda_n(M)$ are transformed by transducers $T_{1(1)}$, ..., $T_{n(1)}$ into codes $\lambda_1(e)$, ..., $\lambda_n(e)$ and the codes of computer magnitudes $q_1(e)$, ..., $q_k(e)$ are processed by follow-up systems with amplifiers A_1 , A_2 , ..., A_k , motors M_1 , M_2 , ..., M_k and transducers $T_{1(2)}$, $T_{2(2)}$, ..., $T_{k(2)}$. 3)

The controller which can be called the digital follow-up machine (DFM). The computer in DFM and the whole system of introducing the necessary data is the same as in DC, so that all mathematical relationships are also reduced to a system of algebraic equations, although the form of the latter is different. The input of computers consists not only of fundamental data but also of the required quantities $q_1(e)$, ..., $q_k(e)$, whose initial values are determined by arbitrary positions of transducers $T_{1(2)}$, ..., $T_{k(2)}$, differing from the required values by δ_{q1} , δ_{q2} , ..., δ_{qk} . As an example the three systems are used to solve the problem of evaluating the modulus M

Card 3/4

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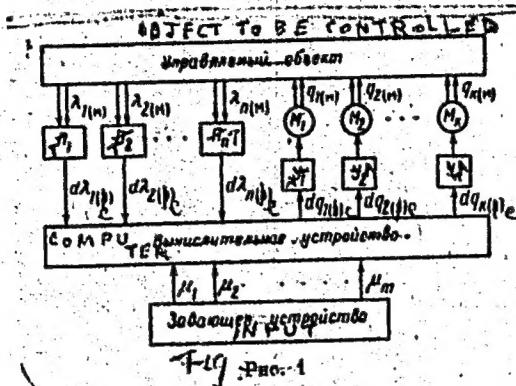
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The problem of functional design ...

and argument α from its components X and Y. There are 3 figures, 2 tables and 3 Soviet-bloc references.

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Fig. 1.



Card 4/4

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